

Ana de Bettencourt-Dias

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94
papers

3,321
citations

30
h-index

56
g-index

109
ext. papers

3,532
ext. citations

6.1
avg, IF

5.74
L-index

#	Paper	IF	Citations
94	Lanthanide-based emitting materials in light-emitting diodes. <i>Dalton Transactions</i> , 2007 , 2229-41	4.3	408
93	Exploring lanthanide luminescence in metal-organic frameworks: synthesis, structure, and guest-sensitized luminescence of a mixed europium/terbium-adipate framework and a terbium-adipate framework. <i>Inorganic Chemistry</i> , 2007 , 46, 3960-5	5.1	267
92	Isolation and Structural Characterization of the Endohedral Fullerene Sc ₃ N@C ₇₈ . <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1223-1225	16.4	214
91	Isolation and Crystallographic Characterization of ErSc ₂ N@C ₈₀ : An Endohedral Fullerene Which Crystallizes with Remarkable Internal Order. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12220-12226	16.4	165
90	A water-soluble Pybox derivative and its highly luminescent lanthanide ion complexes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6987-94	16.4	161
89	Isophthalato-based 2D coordination polymers of Eu(III), Gd(III), and Tb(III): enhancement of the terbium-centered luminescence through thiophene derivatization. <i>Inorganic Chemistry</i> , 2005 , 44, 2734-41	5.1	147
88	Eu(III) and Tb(III) luminescence sensitized by thiophenyl-derivatized nitrobenzoato antennas. <i>Inorganic Chemistry</i> , 2006 , 45, 10138-46	5.1	116
87	Luminescent Ln ³⁺ nitrobenzoato complexes: first examples of sensitization of green and red emission. <i>Chemical Communications</i> , 2004 , 1024-5	5.8	115
86	Uranyl sensitization of samarium(III) luminescence in a two-dimensional coordination polymer. <i>Inorganic Chemistry</i> , 2012 , 51, 201-6	5.1	109
85	Crystallographic characterization of the structure of the endohedral fullerene [Er ₂ @C ₈₂ isomer I] with C _s cage symmetry and multiple sites for erbium along a band of ten contiguous hexagons. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4172-3	16.4	89
84	Para-derivatized pybox ligands as sensitizers in highly luminescent Ln(III) complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 8848-61	5.1	86
83	Thiophene-derivatized pybox and its highly luminescent lanthanide ion complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15436-7	16.4	86
82	Aromatic N-donor ligands as chelators and sensitizers of lanthanide ion emission. <i>Coordination Chemistry Reviews</i> , 2014 , 273-274, 165-200	23.2	84
81	Nitro-functionalization and luminescence quantum yield of Eu(III) and Tb(III) benzoic acid complexes. <i>Dalton Transactions</i> , 2006 , 4093-103	4.3	81
80	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10427-30	16.4	61
79	Structural and photophysical properties of visible- and near-IR-emitting tris lanthanide(III) complexes formed with the enantiomers of N,NRbis(1-phenylethyl)-2,6-pyridinedicarboxamide. <i>Inorganic Chemistry</i> , 2012 , 51, 647-60	5.1	61
78	Small Molecule Luminescent Lanthanide Ion Complexes - Photophysical Characterization and Recent Developments. <i>Current Organic Chemistry</i> , 2007 , 11, 1460-1480	1.7	50

77	Ligand Design for Luminescent Lanthanide-Containing Metallopolymers. <i>Inorganic Chemistry</i> , 2016 , 55, 9954-9963	5.1	50
76	First Unsymmetrical Bisfullerene, C121: Evidence for the Presence of Both Homofullerene and Methanofullerene Cages in One Molecule. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1294-1301	16.4	46
75	Electrochemical Studies of C60/Pd Films Formed by the Reduction of C60 in the Presence of Palladium(II) Acetate Trimer. Effects of Varying C60/Pd(II) Ratios in the Precursor Solutions. <i>Chemistry of Materials</i> , 2000 , 12, 1386-1392	9.6	41
74	Synthesis, lanthanide coordination chemistry, and liquid-liquid extraction performance of CMPO-decorated pyridine and pyridine N-oxide platforms. <i>Inorganic Chemistry</i> , 2013 , 52, 3063-83	5.1	40
73	Electropolymerization of 2-Ferrocenylpyrrolidino-[3,4,1,2][C60]fullerene in the Presence of Palladium Acetate. Formation of an Electroactive Fullerene-Based Film with a Covalently Attached Redox Probe. <i>Chemistry of Materials</i> , 2003 , 15, 4122-4131	9.6	37
72	Electronic interactions in a new Fullerene dimer: C(122)H(4), with two methylene bridges. <i>Journal of Organic Chemistry</i> , 2000 , 65, 3269-73	4.2	36
71	Structure and properties of C60/Pd films formed by electroreduction of C60 and palladium(II) acetate trimer: evidence for the presence of palladium nanoparticles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 518-525		34
70	Charging Processes in Electroactive C60/Pd Films: Effect of Solvent and Supporting Electrolyte. <i>Chemistry of Materials</i> , 1999 , 11, 2265-2273	9.6	34
69	Luminescence and Nonlinear Optical Properties in Copper(I) Halide Extended Networks. <i>Inorganic Chemistry</i> , 2016 , 55, 11408-11417	5.1	33
68	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10583-10586	3.6	32
67	The effect of 4-halogenobenzoate ligands on luminescent and structural properties of lanthanide complexes: experimental and theoretical approaches. <i>New Journal of Chemistry</i> , 2015 , 39, 1883-1891	3.6	30
66	Interactions of metalloporphyrins as donors with the electron acceptors C60, tetracyanoquinomethane (TCNQ) and trinitrofluorenylidene malonitrile. <i>Dalton Transactions</i> , 2003 , 3227	4.3	30
65	Isolierung und strukturelle Charakterisierung des endohedralen Fullerenes Sc3N@C78. <i>Angewandte Chemie</i> , 2001 , 113, 1263-1265	3.6	30
64	Redox-active films formed by electrochemical reduction of solutions of C60 and platinum complexes. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2116-2122		29
63	Estimating the Donor-Acceptor Distance To Tune the Emission Efficiency of Luminescent Lanthanide Compounds. <i>Inorganic Chemistry</i> , 2017 , 56, 709-712	5.1	28
62	Selective cytotoxicity and luminescence imaging of cancer cells with a dipicolinato-based Eu complex. <i>Chemical Communications</i> , 2017 , 53, 11818-11821	5.8	27
61	2-Chloro-5-nitrobenzoato complexes of Eu(III) and Tb(III) [A 1D coordination polymer and enhanced solution luminescence. <i>Inorganic Chemistry Communication</i> , 2006 , 9, 444-448	3.1	26
60	New thiophene-functionalized pyrene, peropyrene, and teropyrene via a two- or four-fold alkyne annulation and their photophysical properties. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 341-345	0.9	24

59	Turning on lanthanide luminescence via nanoencapsulation. <i>Inorganic Chemistry</i> , 2013 , 52, 6311-8	5.1	22
58	Synthesis and f-element ligation properties of NCMPO-decorated pyridine N-oxide platforms. <i>Dalton Transactions</i> , 2014 , 43, 8368-86	4.3	21
57	Intermolecular Forces and Functional Group Effects in the Packing Structure of Thiophene Derivatives. <i>Crystal Growth and Design</i> , 2005 , 5, 1477-1483	3.5	19
56	Phenylthiophene-dipicolinic acid-based emitters with strong solution blue and solid state green emission. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25638-45	3.4	17
55	Introduction to Lanthanide Ion Luminescence 2014 , 1-48		15
54	Unusual nitro-coordination of europium(III) and terbium(III) with pyridinyl ligands. <i>Dalton Transactions</i> , 2012 , 41, 11212-8	4.3	15
53	ZnS Nanoparticles Sensitize Luminescence of Capping-Ligand-Bound Lanthanide Ions. <i>Inorganic Chemistry</i> , 2017 , 56, 3260-3268	5.1	14
52	Mn Doped AlZS/ZnS Nanocrystals: Synthesis and Optical Properties. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 1077-1083	5.7	14
51	Cadmium and Zinc Alloyed Cu-In-S Nanocrystals and Their Optical Properties. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	13
50	Synthesis, Structure, Photophysical Properties, and Photostability of Benzodipyrenes. <i>Chemistry - A European Journal</i> , 2019 , 25, 1441-1445	4.8	13
49	Microwave-assisted synthesis of ternary lanthanide(2-thenoyltrifluoroacetone) 3 (triphenylphosphine oxide) 2 complexes. <i>Inorganica Chimica Acta</i> , 2017 , 464, 23-30	2.7	11
48	O Generating Luminescent Lanthanide Complexes with 1,8-Naphthalimide-Based Sensitizers. <i>Inorganic Chemistry</i> , 2019 , 58, 13471-13480	5.1	11
47	Ln(III)-centered emission sensitized through fluorescent carbon dots. <i>Journal of Luminescence</i> , 2017 , 192, 1273-1277	3.8	11
46	The influence of electroactive solutes on the properties of electrochemically formed fullerene C60-based films. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 549, 109-117	4.1	11
45	Anion- and H-Bonding Interactions Supporting Encapsulation of [Ln(NO)] (Ln = Nd, Er) with a Triazine-Based Ligand. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15102-15110	16.4	10
44	Circularly Polarised Luminescence 2014 , 77-124		10
43	A water-soluble Tb(III) complex as a temperature-sensitive luminescent probe. <i>Canadian Journal of Chemistry</i> , 2018 , 96, 859-864	0.9	10
42	Wavelength-Dependent Singlet Oxygen Generation in Luminescent Lanthanide Complexes with a Pyridine-Bis(Carboxamide)-Terthiophene Sensitizer. <i>Chemistry - A European Journal</i> , 2020 , 26, 7274-7280	4.8	9

41	Luminescence Bioimaging with Lanthanide Complexes 2014 , 125-196		9
40	Full Visible Spectrum and White Light Emission with a Single, Input-Tunable Organic Fluorophore. <i>Journal of the American Chemical Society</i> , 2020 ,	16.4	9
39	Secondary-Sphere Chlorolanthanide(III) Complexes with a 1,3,5-Triazine-Based Ligand Supported by Anion- π and Hydrogen-Bonding Interactions. <i>Inorganic Chemistry</i> , 2020 , 59, 151-160	5.1	9
38	Sensitization of Ln(III) (Ln = Eu, Tb, Tm) Ion Luminescence by Functionalized Polycarbonate-Based Materials and White Light Generation. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5310-5317	2.3	8
37	Luminescent Carbazole-Based Eu and Yb Complexes with a High Two-Photon Absorption Cross-Section Enable Viscosity Sensing in the Visible and Near IR with One- and Two-Photon Excitation. <i>Inorganic Chemistry</i> , 2020 , 59, 3193-3199	5.1	8
36	Homobinuclear sulfato-bridged and mononuclear nitrato complexes of Cu(II) with thiophen-2-yl-dipicolylamine; structure and anion-dependent absorption spectra. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 753-758	3.1	8
35	Two-photon Absorption of Lanthanide Complexes: from Fundamental Aspects to Biphotonic Imaging Applications 2014 , 197-230		7
34	Luminescence of Lanthanide Complexes with Perfluorinated Alkoxide Ligands. <i>Inorganic Chemistry</i> , 2020 , 59, 9807-9823	5.1	6
33	Thiophene-derivatized pyridine-bis(carboxamide) as a sensitizer for Ln(III) luminescence and 1O ₂ generation. <i>Journal of Luminescence</i> , 2020 , 224, 117309	3.8	6
32	An oxazoline derivatized Pybox ligand for Eu(III) and Tb(III) sensitization. <i>Comptes Rendus Chimie</i> , 2010 , 13, 691-699	2.7	6
31	Counter-anions and their coordination behavior with Cu(II) complexes of thiophen-3-yl-dipicolylamine. <i>Inorganica Chimica Acta</i> , 2010 , 363, 4088-4095	2.7	6
30	Tuning the structural and lanthanide luminescence properties of macrocyclic tetraaminodiphenolate europium(III) complexes. <i>Polyhedron</i> , 2016 , 114, 451-458	2.7	6
29	New up-conversion luminescence in molecular cyano-substituted naphthylsalophen lanthanide(III) complexes. <i>Chemical Communications</i> , 2021 , 57, 2551-2554	5.8	6
28	Isolation and Structural Characterization of the Endohedral Fullerene Sc(3)N@C(78) This work was supported by the US National Science Foundation (Grants CHE 9610507 and CHE 0070291 to A.L.B.), LUNA Innovations (H.C.D.), and the Gulbenkian Foundation (postdoctoral fellowship to A.L.B.). <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1223-1225	16.4	6
27	Photocytotoxicity of Oligothiophenyl-Functionalized Chelates That Sensitize Ln Luminescence and Generate O ₂ . <i>Chemistry - A European Journal</i> , 2020 , 26, 12060-12066	4.8	5
26	Sensitization of near-infrared Ln(III) [Ln = Yb or Nd] ions using water-soluble, band gap tuneable 3-MPA-capped CdS nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2814-2821	7.1	5
25	Solution structure of a europium-nicotianamine complex supports that phytosiderophores bind lanthanides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4287-4299	3.6	5
24	Luminescent lanthanide complexes with a pyridine-bis(carboxamide)-bithiophene sensitizer showing wavelength-dependent singlet oxygen generation. <i>Dalton Transactions</i> , 2020 , 49, 6661-6667	4.3	4

23	Photocytotoxicity of Thiophene- and Bithiophene-Dipicolinato Luminescent Lanthanide Complexes. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 7724-7734	8.3	4
22	Estimating the Individual Spectroscopic Properties of Three Unique Eu Sites in a Coordination Polymer. <i>Inorganic Chemistry</i> , 2018 , 57, 15421-15429	5.1	4
21	Isolation and Structural Characterization of the Endohedral Fullerene Sc ₃ N@C ₇₈ 2001 , 40, 1223		4
20	Photophysical properties of asymmetric and water-soluble dinuclear lanthanide complexes of poly glycol chain functionalized-benzoic acid derivative: experimental and theoretical approaches. <i>RSC Advances</i> , 2016 , 6, 101133-101141	3.7	3
19	Lanthanides: Electronic Structure 2012 ,		3
18	Two-Photon Excitation for Bone Imaging: A New Application for Lanthanide Luminescence. <i>Chem</i> , 2016 , 1, 342-343	16.2	3
17	Lanthanide ion emission in multicolor OLEDs (Ce ³⁺ , Pr ³⁺ , Tb ³⁺ , Dy ³⁺ , Tm ³⁺ , and white light Eu ³⁺ /Tb ³⁺ hybrid systems) and device characterization 2018 , 99-131		2
16	Synthesis and Characterization of Two Tritylthio-Derivatives: 1-Bromo-3-Tritylthiopropene and 2-(Tritylthio)-Ethanethiol. <i>Journal of Chemical Crystallography</i> , 2017 , 47, 233-240	0.5	2
15	Heterometallic Complexes Containing Lanthanides 2014 , 331-358		2
14	Crystallographic Characterization of Dipyrindylamine Derivatives. <i>Journal of Chemical Crystallography</i> , 2011 , 41, 192-197	0.5	2
13	An Uncommon Hexafluorosilicate Salt of the Bis(diethylamino)difluorosulfonium Cation Displaying Extensive Hydrogen Bonding. <i>Journal of Chemical Crystallography</i> , 2011 , 41, 902-907	0.5	2
12	Diaqua-tris-[4,4,4-trifluoro-3-oxo-1-(thio-phen-2-yl)but-1-en-1-olato]neodymium(III) acetonitrile monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, m1188-9		2
11	New k ¹ ,k ¹ -benzoato-bridged complexes of Eu(III) and Tb(III) with a triazine-benzamide ligand. <i>Main Group Chemistry</i> , 2012 , 11, 31-44	0.6	2
10	Azido- and amino-substituted dipicolinates for the sensitization of the luminescent lanthanides Eu(III) and Tb(III). <i>Inorganica Chimica Acta</i> , 2021 , 514, 120003	2.7	2
9	Unusual O-Bridged Symmetric Quinoline-Based Ligand for the Formation of Luminescent Mono-Aqua Lanthanide Complexes. <i>ChemistrySelect</i> , 2016 , 1, 6618-6622	1.8	1
8	Spectroscopic Techniques and Instrumentation 2014 , 49-76		1
7	Lanthanide Ion Complexes as Chemosensors 2014 , 231-268		1
6	4-Bromo-N,N,N,N-tetra-ethyl-pyridine-2,6-dicarboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o2124		1

- 5 Effect of the aromatic substituent on the π -position of pyridine-bis(oxazoline) sensitizers on the emission efficiency of their Eu and Tb complexes. *Dalton Transactions*, **2020**, 49, 17699-17708 4.3 1
- 4 Direct Excitation Ln(III) Luminescence Spectroscopy to Probe the Coordination Sphere of Ln(III) Catalysts, Optical Sensors and MRI Agents **2014**, 303-330 0
- 3 Metal-organic frameworks of lanthanide iminodiacetates and tartrates: Synthesis, structural characterization and luminescence properties [Commemorating the 100th anniversary of the birth of Academician Guangxian Xu. *Journal of Rare Earths*, **2021**, 39, 487-494 3.7 0
- 2 Upconversion of Ln³⁺-based Nanoparticles for Optical Bio-imaging **2014**, 269-302
- 1 Color Inserts **2014**, 1-24